

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 100% 0057765 - PORT DIESEL ENGINE

Sample No: VPA058997

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA058997   | --- | --- | --- |
| Sample Date   | 12 Dec 2023 | --- | --- | --- |
| Machine Hours | 217         | --- | --- | --- |
| Oil Hours     | 217         | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 14.6 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 7.5  | --- | --- | --- |
| Oxidation (PA)   | %        | 62     | --- | --- | --- |

### CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | █ 1.7 | --- | --- | --- |
| Nitration (PA) | %   | 75    | --- | --- | --- |
| Sulfation (PA) | %   | 64    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | <1.0  | --- | --- | --- |
| Silicon        | ppm | █ 23  | --- | --- | --- |
| Sodium         | ppm | █ 16  | --- | --- | --- |
| Potassium      | ppm | █ 16  | --- | --- | --- |

### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 52 | --- | --- | --- |
| Copper     | ppm | █ 21 | --- | --- | --- |
| Lead       | ppm | █ 6  | --- | --- | --- |
| Tin        | ppm | █ 3  | --- | --- | --- |
| Aluminum   | ppm | █ 12 | --- | --- | --- |
| Chromium   | ppm | █ 3  | --- | --- | --- |
| Molybdenum | ppm | █ 1  | --- | --- | --- |
| Nickel     | ppm | █ 1  | --- | --- | --- |
| Titanium   | ppm | <1   | --- | --- | --- |
| Silver     | ppm | █ <1 | --- | --- | --- |
| Manganese  | ppm | █ 6  | --- | --- | --- |
| Vanadium   | ppm | <1   | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 2622 | --- | --- | --- |
| Magnesium  | ppm | █ 25   | --- | --- | --- |
| Zinc       | ppm | █ 1244 | --- | --- | --- |
| Phosphorus | ppm | █ 1083 | --- | --- | --- |
| Barium     | ppm | █ 4    | --- | --- | --- |
| Boron      | ppm | █ 114  | --- | --- | --- |

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#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP592286

Unique No: 10794140

Signed: Sean Felton

Report Date: 20 Dec 2023

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## GRAPHS

